Name: CW/

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Geometry, Period

Due Date: Fri, 20 Mar 2015

**Geometry**

**Homework**



**Whatever you do not complete in class is homework. ~ PARALLELOGRAM QUIZ ON FRIDAY! ~**

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| 1. Which of the statements is NOT true? (Hint: sketch & label each.) 2. A square is a parallelogram  *(This means everything about a parallelogram is true about a square.)* 3. A rhombus is a parallelogram 4. A square is a rhombus 5. A rectangle is a rhombus 6. A square is a rectangle   Explain: | 1. Tell if the statement is always true, sometimes true, or never true. 2. A rhombus is a parallelogram 3. A parallelogram is a rhombus 4. A rectangle is a rhombus 5. A square is a rhombus 6. A rhombus is a square | |
| **TEXTBOOK – page 520,** # 28 & # 32 – 90  (Complete your notebook. Once finished, you can begin the homework below.) | | |
| **SYNTHESIZE!!** | | |
| 1. What do rhombuses and squares have in common? 2. How do rhombuses and squares differ? 3. What do squares and rectangles have in common? 4. How do squares and rectangles differ? 5. Why are squares, rhombuses, and rectangles all parallelograms (you need three reasons here)? | | |
| **Example 3:** One diagonal of a rhombus is 30 cm and the other is 16 cm. *Sketch it:*  a. How long is each side of the rhombus?  b. Find the perimeter  c. Find the area. | | **Example 4:** The diagonal of a square is 16 inches.  a. How long is each side of the square?  b. Find the perimeter.  c. Find the area. |
| 1. One diagonal of a rhombus is 18 inches and the other is 80 inches.   a. How long is each side of the rhombus?  b. Find the perimeter.  c. Find the area. | | 1. The diagonal of a square is 12 cm.   a. How long is each side of the square?  b. Find the perimeter.  c. Find the area. |
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| 1. Find the area of the parallelogram below. | | 1. An obtuse angle of a parallelogram has a measure   of 150º. If the sides of the parallelogram measure  10 and 12 centimeters, what is the area of the  parallelogram? |
| 1. Classify the special quadrilateral. *Explain* your reasoning. Then find the values of *x* and *y.* | | 1. Classify the special quadrilateral. *Explain* your reasoning. Then find the values of *x* and *y.* |